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ABSTRACT

A cooling tower having a heat exchanger. The heat exchanger includes at least one heat exchanger pack having a generally diamond shape. The heat exchanger pack includes a first set of passageways for receiving a stream of warm, water laden air and a second set of passageways for receiving ambient air. The first set of passageways and second set of passageways are separate. Cooling tower configurations including the heat exchanger pack are disclosed for achieving effluent plume abatement, and capture of a portion of the effluent for replacement back into the cooling tower reservoir or as a source of purified water.